

Claims

1. Arrangement for the wireless connection of terminal devices (HS1, HS2, HS3, PDA) to a communication system, with

- 5 a) a data packet network (LAN) for the transmission of data packets using network addresses (IP1, IP2) valid within the network,
- 10 b) at least one transition device (GW1, GW2) coupled to the data packet network (LAN), to which at least one short-range radio module (BT1, BT2) is coupled, with the transition device (GW1, GW2) having a coupling table (KTAB) with terminal device addresses (RN1, RN2, RN3, MA) of terminal devices (HS1, HS2, HS3, PDA) located within the radio range of at least one short-range radio module (BT1, BT2),
- 15 c) a server (S) coupled to the data packet network (LAN) for controlling connections to the terminal devices (HS1, HS2, HS3, PDA), with the server having an allocation table (ZTAB) in which a network address (IP1, IP2) of the particular transition device (GW1, GW2) is allocated in each case to a terminal device address (RN1, RN2, RN3, MA) of a terminal
- 20 device (HS1, HS2, HS3, PDA), to which transition device (GW1, GW2) a short-range radio module (BT1, BT2) in whose radio range this terminal device (HS1, HS2, HS3, PDA) is located, is coupled, and
- 25 d) a packet-based alignment protocol (AP) for the dynamic alignment of the allocation table (ZTAB) with the coupling table (KTAB).

2. Arrangement in accordance with Claim 1, characterized in that,

30 the data packet network (LAN) is realized by a network based on an

Internet protocol.

3. Arrangement in accordance with one of the preceding claims, characterized in that

5 the transition device (GW2, GW2) has a translator (IWU) for translation between a network protocol used in the data packet network and a protocol specific to a radio module.

4. Arrangement in accordance with Claim 3,

10 characterized in that

the translator (GW1, GW2) has a detection device for detecting, by means of the network protocol used, which terminal device-specific application a connection to a terminal device (HS1, HS2, HS3, PDA) is allocated to, in order to be able to perform an application-specific protocol conversion accordingly.

5. Arrangement in accordance with Claim 3 or 4,

characterized in that

20 the protocol specific to a radio module has a specific voice interface (VOICE) and a specific data interface (DATA).

6. Arrangement in accordance with one of the preceding claims, characterized in that

a Bluetooth module is used as a short-range radio module (BT1, BT2).

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7. Arrangement in accordance with one of the preceding claims, characterized by,

a locating device for determining a momentary location of a

particular terminal device (HS1, HS2, HS3, PDA) by means of the allocation table (ZTAB).

8. Arrangement in accordance with one of the preceding claims,
5 characterized by
a gateway device (EXTGW, GSMGW) coupled to the data packet network
for coupling the data packet network (LAN) to a forwarding
communication network (WAN, ISDN).
- 10 9. Arrangement in accordance with one of the preceding claims,
characterized by
a headset (HS1, HS2, HS3) as a terminal device for voice connections.
- 15 10. Arrangement in accordance with one of the preceding claims,
characterized by
a PDA (Personal Digital Assistant) (PDA) as a terminal device for data
connections.
- 20 11. Arrangement in accordance with one of the preceding claims,
characterized by
a PDA (Personal Digital Assistant) (PDA) as a terminal device for entering
destination addresses for outgoing connections and for initiating those
connections.